## PATENT APPLICATION Sheet 1 of 6

FC	DRM F	PTO-1449			ATTY. DOCKET NO. 200308295-2	APPLICATION NO. CONFIE	N NOITAMS
1.19	ST OF	PATENTS AND P	UBLICATIONS FOR				
	LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE			APPLICANT  Vladimir Pavlovic et al.			
		STATE	MENT		FILING DATE	GROUP	
	(L	Jse several sheets	f necessary)		09/16/03		
REFERE	NCE	DESIGNATION	U.S. PA	TEN	r documents		<u>.</u>
XAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE		NAME	Pages, Columns, Lines V Relevant Passages or Figures	
S.A	1A	5,325,098	06/28/94	Blai	ir et al.		
	1B	5,923,712	07/13/99	Ley	endecker et al.		
	1C	6,064,703	05/16/00	Cus	sani et al.		
	1D	6,226,409 B1	05/01/91	Cha	am et al.		
	1E	6,243,037 B1	06/05/01	Pul	ford et al.		
	1F	6,314,204 B1	11/06/01	Ret	ng et al.		
	1G	6,393,046 B1	05/21/02	Koł	nli et al.		<del></del>
	1H	6,396,878 B1	05/28/02	Piir	ainen		
	11	6,480,876 B2	00/12/02	Ret	ng et al.		<del></del>
	1J	<del> </del>					
	1K			1			
		•	FOR	EI CN	PATENT DOCUME	aite .	•
			FUR	EIGN	PATENT DOCUME	N15	. Check if
		DOCUMENT NUMBER	PUBLICATION DATE	N/	OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appe	Translatio
	1L						
	1M						
	1N						
	10						
	1P						
		OTHER REFI	ERENCES (including	g Auf	thor, Title, Date, Pe	ertinent Pages, etc.)	
	10	Murnby Kevin	P., Switching Kalma	n Filt	ers. August 21, 199	8. pp. 1-16.	
	-						
S.A							
10 //	1R	Murphy Keyln	P Inference and Le	arnio	a in Hybrid Rayesian	Networks, Report No.	
	''`	UCB/CSD-98-9	190, January 1998, p	p. 1-	18.	How orks, report No.	-8-
Q 1							i
<del>۱۱۰/۱</del>	<del> </del>	<u> </u>					· ·
	15	Ghahramani, Z Gatsby Compu	oubin and Hinton, G. Itational Neuroscienc	E., V e Uni	ariational Learning fo t., pp. 1-26.	r Switching State-Space Mode	is,
0							•
SA			·		·		
EXAMIN	NER.	1	,		DATE CONSIDERS	Đ	•
	8	ul Men			217104	•	
D 0 E 100 177	<u> </u>	and the same			the state of the state of		

## PATENT APPLICATION Sheet 2 of 6

					ATTY, DOCKET NO.		APPLICATION NO.	CONFIRMAT	TION
FORM PTO-1449				200308295-2					
			JELICATIONS FOR		APPLICANT				
APPLICANT'S INFORMATION DISCLOSURE STATEMENT					Viadimir Paviovio	et a	I.   GROUP		-
	(U	se several sheets i	f necessary)		09/16/03				_
REFEREN	ICE	DESIGNATION	U.S. PA	ATEN'	T DOCUMENTS				
KAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE		NAME		Pages, Columns Relevant Passages		
	2A							1	
	2B								
	2C						*		
	2D								_
	2E					·			
	2F								
	2G			1					
	2H			$T^-$					
	21			$\top$					
	2J			1					
	2K			1					_
	2L	DOCUMENT NUMBER	PUBLICATION DATE		AME OF PATENTEE OR APPLICANT	Rel	evant Passages/Figu	res Appear	Transla attach
	2M					+-			
	2N	——————————————————————————————————————				+-			
	20		-			+-			
	2P					1			
		OTHER REFE	RENCES (includin	g Au	thor, Title, Date, P	ertine	ent Pages, etc.)		·
3.A	2Q	Pavlovic, Vladi Networks, in C	mir, et al., Time-Ser omputer Vision and	ies Cl Patte	assification Using M ern Recognition, pp.	ixed-S 609-6	State Dynamic Bay 15, June 1999.	esian	
3. <sub>A</sub>	2R	Pavlovi Vladir Dynamic Mode	Pavlovi , Vladimir, et al., A Dynamic Bayesian Network Approach to Figure Tracking Using Learned Dynamic Models.						
`. A	28	Welch, Greg ar Science, Univ. pp. 1-16.	d Bishop, Gary, An of North Carolina at	Introi Chap	duction to the Kalma el Hill, Chapel Hill, I	n Filte NC 27	er, Department of 599-3175, Septer	Computer nber 17, 199	7,
EXAMIN	ER		<del></del>		DATE CONSIDER	 ED	<del></del>		<del>.</del>
(		1 1 .			10-	11			
A-2	0 1	N Max			1/110	$Z_{-}$			

FORM PTO-1449					ATTY. DOCKET NO.		APPLICATION NO.	CONFIRMA	HON N
LIST OF PATENTS AND PUBLICATIONS FOR					200308295-2		<u> </u>		
		NT'S INFORMATI	on disclosure		APPUCANT Viadimir Paviovic et al.				
STATEMENT					FLING DATE	<u> </u>	GROUP		
	(U	se several sheets i	f necessary)		09/16/03				
REFERE	NCE	DESIGNATION	U.S. PA	ATENT	DOCUMENTS		•		
XAMINER		DOCUMENT NUMBER	PUBLICATION DATE	T	NAME		Pages, Columns Relevant Passages		
	за								
	3B								
	3C								
	3D								
	3E								
	3F								
	3G								
	3Н								
	31		-			•			_
	3J								
	3K								
		DOCUMENT NUMBER	PUBLICATION DATE		ME OF PATENTEE OR APPLICANT	Re	Pages/Columns/Lines elevant Passages/Rgu		Check in Trenslation attached
	21		1 f			↓_			
	3L 3M								I .
	3L 3M 3N					┼-			<del>                                     </del>
	3M					-			
	3M 3N								
	3M 3N 3O	OTHER REFE	RENCES (includin	ng Aut	hor, Title, Date, Po	ertin	ent Pages, etc.)		
	3M 3N 3O	<del></del>			hor, Title, Date, Po			dev/main.htr	nl.
3.A	3M 3N 3O 3P	<del></del>						dev/main.htr	nl.
3.A	3M 3N 3O 3P	http://www.sc	s.leeds.ac.uk/scs-or	nly/tead	ching-materials/Hidd	enMa	arkovModels/html_		
· · ·	3M 3N 3O 3P	http://www.sc Shumway, R.H Statistical Asso	s.leeds.ac.uk/scs-or	Dynan 1991,	ching-materials/Hidd	enMa	arkovModels/html_ witching, Journal o	of the Americ	ean
· · ·	3M 3N 3O 3P 3Q 3R	Shumway, R.H Statistical Asso	s.leeds.ac.uk/scs-or . and Stoffer, D.S., ociation, September U, X-R, Estimation 446-484.	Dynan 1991,	ching-materials/Hidd nic Unear Models w Vol. 86, No. 415.	enMi	arkovModels/html_ witching, Journal o	of the Americ	ean

									TION
FORM PTO-1449				ATTY. DOCKET NO.		APPLICATION NO.	CONFIRM	TION	
LIST OF PATENTS AND PUBLICATIONS FOR				200308295-2 APPLICANT		<u></u>	L		
APPLICANT'S INFORMATION DISCLOSURE STATEMENT					Vladimir Pavlovic et al.				
					FILING DATE .		GROUP		
	(US8	several sheets I	rr necessary)		09/16/03				
EFEREN	NCE DI	ESIGNATION	U.S. F	PATEN	DOCUMENTS				
CAMINER		DOCUMENT NUMBER	PUBLICATION DATE		NAME		Pages, Columns Relevant Passages of	, Lines Wher	e pear
1,	4A								
	4B	1.		$\dashv$		-			
<del></del>	4C			_		_		<del></del>	
١,	4D			_	<del></del>	$\dashv$	<del></del>	<del></del> _	
- 1,	4E							<del></del>	1
	4F				<del></del>	$\dashv$		<del> </del>	
	4G					$\dashv$	·· <del>·</del>	•	
- 1	4H			<del>-  </del>		+			
- /2	41	*		-			<del></del>		
1	4J					_			
	4K								<del></del>
		DOCUMENT			PATENT DOCUME	т	ages/Columns/Lines	Where	Check
4 4	4L 4M 4N	DOCUMENT NUMBER	PUBLICATION DATE	NA	PATENT DOCUME ME OF PATENTEE OR APPLICANT	Р	ages/Columns/Lines vant Passages/Figur	Where es Appear	Check Translat attachi
4 4 4	4L 4M 4N		PUBLICATION	NA	ME OF PATENTEE	Р	ages/Columns/Lines vant Passages/Figur	Where es Appear	Translat
4 4 4	4L 4M 4N		PUBLICATION	NA	ME OF PATENTEE	Р	ages/Columns/Lines vant Passages/Figur	Where es Appear	Translat
4 4 4	4L 4M 4N 4O	NUMBER	PUBLICATION DATE	NA (	ME OF PATENTEE	Pele	vant Passages/Figur	Where es Appear	Translat
4 4 4	4L 4M 4N 40 4Q Ju	NUMBER  OTHER REFEI	PUBLICATION DATE  RENCES (Including al., An Introduction	NA (	ME OF PATENTEE OR APPLICANT	P Rele	nt Pages, etc.)	es Appear	Translat
4 4 4	4L 4M 1N 10 1P 4Q J	OTHER REFEI	PUBLICATION DATE  RENCES (Includir al., An Introduction www.stat.berkeley.ed)	ng Auth	ME OF PATENTEE OR APPLICANT  HOR, Title, Date, Pe	P Rele	nt Pages, etc.)	es Appear	Translat attachi
4 4 4	4L 4M 1N 10 1P 4Q J	OTHER REFEI	PUBLICATION DATE  RENCES (Includir al., An Introduction www.stat.berkeley.ed)	ng Auth	ME OF PATENTEE OR APPLICANT  HOR, Title, Date, Pe	P Rele	nt Pages, etc.)	es Appear	Translat attachi
4 4 4 4	4L 1M 1N 10 1P 11 11 11 11 11 11 11 11 11 11 11 11	OTHER REFEI	PUBLICATION DATE  RENCES (Including al., An Introduction www.stat.berkeley.ed)  et al., Switching ster Science, University of Juang, B.H., An	ng Authon to Vadu/tech	ME OF PATENTEE OR APPLICANT  HOR, Title, Date, Pe	P Rele	nt Pages, etc.)  phical Models, Oct #508.	tober 11,	Translat attachi
4 4 4 4	4L	OTHER REFEI  ordan, M.I., et  999, http://www  hahramani, Z., ept. of Computabiner, L.R. and	PUBLICATION DATE  RENCES (Including al., An Introduction www.stat.berkeley.ed)  et al., Switching ster Science, University of Juang, B.H., An	ng Authon to Vadu/tech	ME OF PATENTEE OR APPLICANT  nor, Title, Date, Perinational Methods for reports/index.html,	P Rele	nt Pages, etc.)  phical Models, Oct #508.	tober 11,	Translat attachi

## PATENT APPLICATION Sheet 5 of 6

									_
F	ORM I	PTO-1449			ATTY. DOCKET NO.	•	APPLICATION NO.	CONFIRMATIO	N N
LIST OF PATENTS AND PUBLICATIONS FOR				200308295-2		<u> </u>		-	
APPLICANT'S INFORMATION DISCLOSURE STATEMENT					APPLICANT Vladimir Pavlovic et al.				
					FILING DATE	c or a	GROUP		-
	(L	Ise several sheets h	f necessary)		09/16/03				_
EFERE	NCE	DESIGNATION	U.S. P	ATEN	DOCUMENTS				
AMINE NITIAL		DOCUMENT NUMBER	PUBLICATION DATE		NAME		Pages, Columns Relevant Passages (	s, Lines Where or Figures Appear	-
	5A								
	5B					•			-
	5C								-
	5D								•
	5E		<del></del>	1	<del></del>				•
	5F		-	+					•
	5G				<u> </u>				-
	5H			_					•
	51			+				<del> </del>	•
	5J		<del></del>	+	<del></del>	-+	····		•
	5K	· · · · · · · · · · · · · · · · · · ·		<del>- </del>	···				•
				Щ				<del></del>	•
		DOCUMENT NUMBER	PUBLICATION DATE		ME OF PATENTEE OR APPLICANT	Rela	Pages/Columns/Lines evant Passages/Figur	Where Tra	neck if nslatic ached
	5L								
	5M				·				
	5N								
	50								
	5P								
	•	OTHER REFE	RENCES (includin	a Autl	nor, Title, Date, P	artina	nt Pages etc.)	<del> </del>	
	1			9 74.		61 (1116)		·	
	50	Kim, Chang-Jin, (1994) pp. 1-22	Dynamic Linear M	odels v	vith Markov-Switch	ning, Jo	ournal of Econome	etrics 60,	
1		(1304) pp. 1922	•						
1									
	5R	Krishnamurthy	V and Evans 1 5	inita n	imensional Filters fo	ne Doc	rive Treaties of **	larkey luma	
•		Linear Systems,	Automatica, Vol.	34, No.	6, pp.765-770, 19	988.	sive Tracking of M	iarkov Jump	
1									•
	<u> </u>				<del></del>			<del></del>	
	58	Minka, Thomas	P., From Hidden M	arkov I	Models to Linear Dy iinka/papers/minka-	namic	al Systems, pp. 1-	-10.	
.A		TAPAT FISHIOU.WW	······································	·αυ/ιμπ	шкаграрегз/тіпка-	103-101	.ps.gz.		
• ,									
XAMIN	<del></del>	<u> </u>			DATE CONSIDER	<del></del>	<del></del>		
	(	$\gamma$	·		0 -	_			
					9 7 ~				

## PATENT APPLICATION

Sheet 6 of 6

								T	
F	ORM P	TO-1449			ATTY. DOCKET NO.		APPLICATION NO	CONFIRMA	TION N
UST OF PATENTS AND PUBLICATIONS FOR					200308295-2			<u></u>	
		ANT'S INFORMATI	ON DISCLOSURE		APPUCANT Vladimir Pavlovic et al.				
		STATE	MENT		FILING DATE	ot al	GROUP		<del></del>
(Use several sheets if necessary)					09/16/03				
REFERE	NCE	DESIGNATION	U.S. P	ATEN	r documents				
XAMINE		DOCUMENT NUMBER	PUBLICATION DATE		NAME		Pages, Column Relevant Passages	s, Lines Where or Figures App	ear ear
	6A								
	6B	·							
	6C			+		$\neg$			<del></del>
	6D			+				<del>.</del>	
	6E							<u> </u>	
	6F			+-		-+		<del></del>	
	6G					-+			<del></del>
	6Н	<del> </del>			<u> </u>		· · · · · · · · · · · · · · · · · · ·		
	61			+			<del></del>		
	6J								
<del></del>	6K								<del></del>
	lov					1_			—
	6L	DOCUMENT NUMBER	PUBLICATION DATE	NA	ME OF PATENTEE OR APPLICANT	Rele	Pages/Columns/Line evant Passages/Figu	s Where ures Appear	Check Translati attache
	6M								┼
	6N					+			┼──
	60	<del></del>				-		<del> </del>	<del> </del>
	6P			<del></del>		-	<del></del>	<del></del>	<del>                                     </del>
	or					1			
		OTHER REFE	RENCES (includin	g Aut	hor, Title, Date, Pe	ertine	int Pages, etc.)		
S. <sub>A</sub>	6Q	Ghahramani, Z. Technical Repo	and Hinton G.E., F rt CRG-TR-96-2, De	Parame	ter Estimation for Lir Computer Science, (	near C Unive	Dynamical System rsity of Toronto.	s, pp. 1-6,	
S . <sub>/</sub> A	6R	A Brief Introduc http://www.cs.	ction to Graphical M berkeley.edu/murph	lodels hyk/Ba	and Bayesian Netwo yes/bayes.html, pp.	orks, 1-19.			<del></del> -
	68	Maybeck, P.S.,	Stochastic Models	, Estim	nation, and Control, \	Vol. I	Academic Press,	1979.	
	+								
D.A.	J. BR		•		DATE CONSIDERE	 ED			
D. A.			·		DATE CONSIDERE	ED	/		_

PTO-1449 REPRODUCED	ATTORNEY DOCKET NO. 200308295-2		LICATION NO. 663,938	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION O PE	FIRST NAMED INVENTOR Vladimir Pavlovic		FILING DATE 09/16/2003	
December 2, 2004 (Use several sheets if necessary)	секамінек 	CONFI 2311	RMATION NO.	GROUP 2625

	EXAM- ISSUE DATE /						
EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT			
S.A	ij	6,256,418	07/03/2001	Rehg et al.			
•							

EXAMINER	DATE CONSIDERED
Sojel systan	8,20,05